

State of the System – Summer 2024/2025 Outlook Briefing





Eskom Systemic Issues and associated Interventions



Operational



- Unreliable plant resulting in poor performance
- Grid constraints to connect additional capacity
- Dysfunctional organizational culture
- Develop and implement Generation Recovery Plan
- Curtailment and grid capacity allocation rules; Transmission Development Plan execution
- Appoint strong and inspirational leaders (at all levels)
- High performance & values driven culture

Financial



- Weak balance sheet due to high debt burden
- Tariff not reflective of costs
- Revenue pressure non-payment & declining sales
- National Treasury debt relief programme, including municipal debt interventions
- Improving revenue collection and cost driving cutting initiatives
- Migrate towards unbundled cost reflective tariff structure
- Stop or minimise loadshedding

Sustainability



- Outdated vertically integrated business model
- The need to transition into clean energy
- Prevalent fraud, corruption and criminality
 - Drive Legal separation of Eskom unbundle Transmission, Distribution
 & Generation
 - Pursue clean energy project pipeline,
 JET including partnerships
 - Enhance governance and controls to curb fraud, corruption and criminality



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Our approach to this Summer 24/25 outlook briefing



Key takeaways and reflections for the Summer 24/25 outlook

Update on the Generation Recovery Plan

Eskom's direction of travel to achieve long term success

Dan MarokaneGroup Chief Executive

Bheki NxumaloGroup Executive - Gx

Dan MarokaneGroup Chief Executive

Key Takeaways



- Since the 2024/25 winter outlook delivered in April 2024, our performance was consistently above expectation there is a structural shift in the performance of the fleet
 - 150+ consecutive days of NO loadshedding
 - Over R10+ billion Y-O-Y reduction in diesel utilisation costs
 - Average unplanned capacity losses of 12.4GW compared to the 15.5GW likely scenario at the time (3.1GW better than expected 20% improvement)
 - Positive impact on economic outlook due to the sustained EAF and the growth in RE capacity Bank of America projects a **potential ~2% growth to the South African economy***
 - Improved staff morale on the back of the performance to date & happier South Africans!
- We are institutionalising the interventions of the Generation Recovery Plan closing out actions from various independent reports remains the priority
- Despite supply exceeding demand, load reduction has been necessary to protect the network and people in areas with rampant illegal connections
- Given the improved fleet performance, Summer 2024/25 outlook base case planning is premised on:
 - Unplanned outage scenarios revised ranging between 13 000MW to 15 000MW (previous summer 2023/24 14 500MW to 17 000MW)
 - No loadshedding expected if unplanned losses remain below 13GW and at worst, stage 2 expected if unplanned losses reach 15 000MW
- A sustained EAF improvement (67.02% July MTD) together with an expected ~2500MW of additional capacity by March 2025 will guarantee that loadshedding is implemented only in exceptional circumstances going forward
- These positive results allow us to focus on the implementation of our long-term strategy aimed at delivering a competitive and sustainable future-proof Eskom

#WeCanEndLoadsheddingTogether

Bank of America - https://www.businesslive.co.za/bd/economy/2024-07-05-bank-of-america-says-gdp-to-grow-2-if-eskom-maintains-momentum

Reflections: Eskom's performance has improved significantly since April 2024, setting a good base to build on







RIO+ bn

In reduced diesel spend (I April –I 5 Aug 2024 vs same period last year)



~7**GW**

Reduction in unplanned load losses (18GW in May 23 vs 11.3GW in July 24)





Jul MTD - improved from 57% as at April MTD by leveraging Original Equipment Manufacturers, People and Processes



Skills Growth

Staff turnover down to 1.5%
Staff morale index up from 3.6 to 3.9
2000+ learner pipeline across Eskom,
80% technical (artisans, engineers,
operators and technicians)



10.33%

Planned maintenance, compared higher year-onyear than the previous two years

Reflections: Our performance exceeded the winter outlook scenarios – lower unplanned outages, 60% reduction in diesel costs and NO LOADSHEDDING



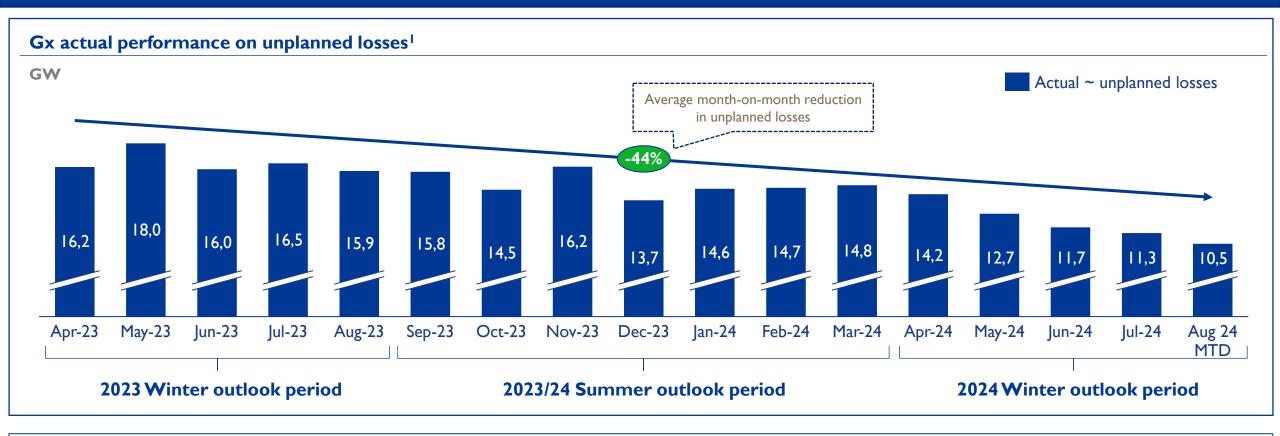
XXX Change to outlook Likely scenario Winter 2024 - I April 2024 to 31 August 2024 **Base Case:** Base Case + 3000MW: Base Case + I500MW: **Scenarios** 14 000MW unplanned outages 15 500MW unplanned outages 17 000MW unplanned outages **Number of LS days** 5 Days 65 0 Days 128 Days **Diesel costs** R 3.3bn R 8.8bn R3.48bn* R 16.0bn Highest stage of LS Stage 2 Stage 0 Stage I Stage 5 Peak Load shedding Max load Load shedding Max Load Load shedding Max Load Month Residual shedding stage shedding stage shedding stage days days days **Forecast April** 29 354 15 0 May 31 205 10 0 32 204 8 0 20 22 June 32 182 July 190 20 31 August 31 336 13 0 27 $\frac{2}{2}$

The likely scenario accounted for 15.5GW of unplanned losses, however due to success with the Generation Recovery Plan, unplanned losses were on average 12.4GW during the winter period

Exceeded planned maintenance of 3677MW, with the actual being 4799MW on average over the winter period

Reflections: There is a consistent decline in unplanned load losses on the back of disciplined execution of maintenance



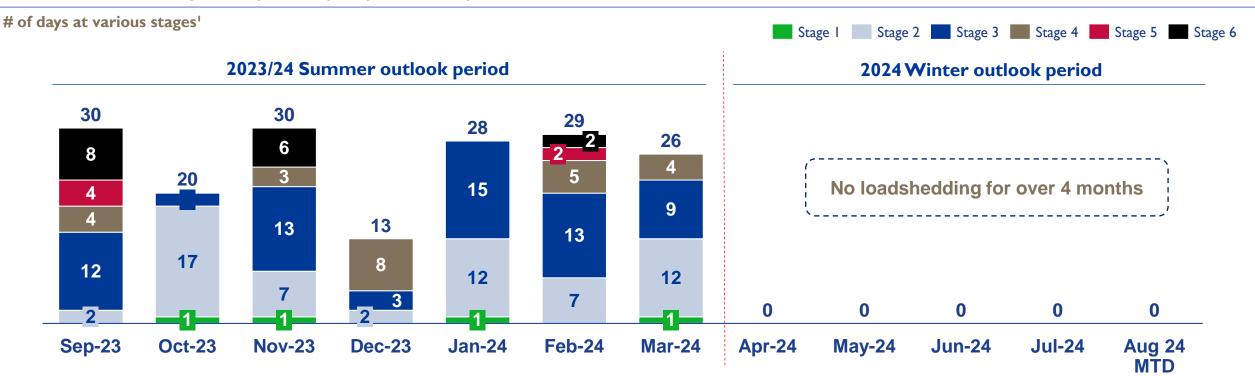


- Downward trend observed in unplanned losses especially at the priority 8 stations (Tutuka, Majuba, Kusile, Kendal, Matla, Duvha, Arnot and Kriel)
- Current unplanned losses of 12.5GW are better than anticipated in the Winter outlook, as a result, no loadshedding was experienced over the winter period
- Year-on-year overall unit trips are declining, indicating that the fleet is becoming more reliable 19.2% reduction between FY23 vs. FY24
- Comparing the average load losses in April Aug 2023 (16.5GW) vs. 2024 (12.5 GW) shows an improvement of approximately 4GW, which further illustrates that the reduction in loadshedding is a result of improved plant performance

Reflections: The continued improvement in Generation plant performance has resulted in 150+ days of continued no loadshedding



Overview of loadshedding intensity and frequency between Sep 2023 and Jul 2024



- An average 17% month-on-month reduction in unplanned losses during the Summer 2023/24 period, as well as the return of units as part of Eskom's recovery plan resulted in no loadshedding being implemented since April
- This performance has been sustained throughout the winter period, with unplanned losses falling to a 12-month low of 11.3GW in July 2024
- Between March and August 2024, Tutuka, Kendal and Kriel showed the greatest improvement in reducing load losses
- **Growth in Renewables** estimated 9.6GW to 11 GW over the last year

Reflections: Despite supply exceeding demand at all times, load reduction has been necessary to protect the network and people in areas with rampant illegal connections



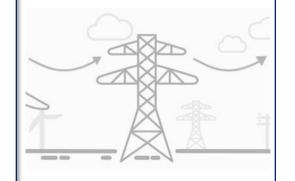
Load Shedding

Generation



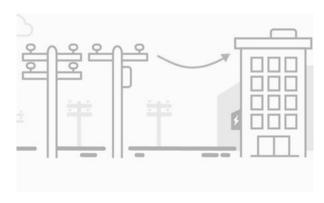
- When there is insufficient generation capacity to meet demand
- Loadshedding implemented to protect the country from a black out

Transmission



Load Reduction

Distribution



- When the customer demand is higher than what the local equipment can withstand
- Load reduction implemented to protect equipment (transformers) and people (explosions)

Eskom is working together with SALGA and the Ministries to resolve the structural challenges facing the distribution industry

WE NEED COMMUNITIES TO HELP US PROTECT OUR EQUIPMENT FROM CRIMINALITY

Summer 2024/25 OUTLOOK - No loadshedding expected for unplanned outages below 13 000MW, and for worst case, stage 2 loadshedding should unplanned outages reach 15 000MW



Likely scenario

							Likely scenario
		Summer	2024/25 – 1 Septem	ber 2024 to 31 Mar	ch 2025 (212 days)		
Scenarios		Base Case: 13 000MW UCLF		Base Case + 1000MW: 14 000MW UCLF		Base Case + 2000MW : 15 000MW UCLF	
Number of LS days OCGT costs		0 Days R 3.5bn		21 Days R 10.3bn		115 Days R 23.0bn	
Highest stage of LS		-		Stage 1		Stage 2	
Month	Peak Residual Forecast	Load shedding days	Max Load shedding stage	Load shedding days	Max Load shedding stage	Load shedding days	Max Load shedding stage
September	29 389	0	0	1	1	16	2
October	28 928	0	0	0	0	16	1
November	28 868	0	0	1	1	13	2
December	28 398	0	0	5	1	17	2
January	28 105	0	0	3	1	16	2
February	28 486	0	0	1	1	16	2
March	28 967	0	0	10	1	21	2

Our Summer 2024/25 base case is revised downwards by 1 500MW relative to the previous summer outlook which ranged from 14 500MW to 17 000MW with loadshedding stages 6 and 7

Summer forecast planned maintenance of ~6700MW (14%) is in line with the levels of maintenance of ~6600MW in the previous period

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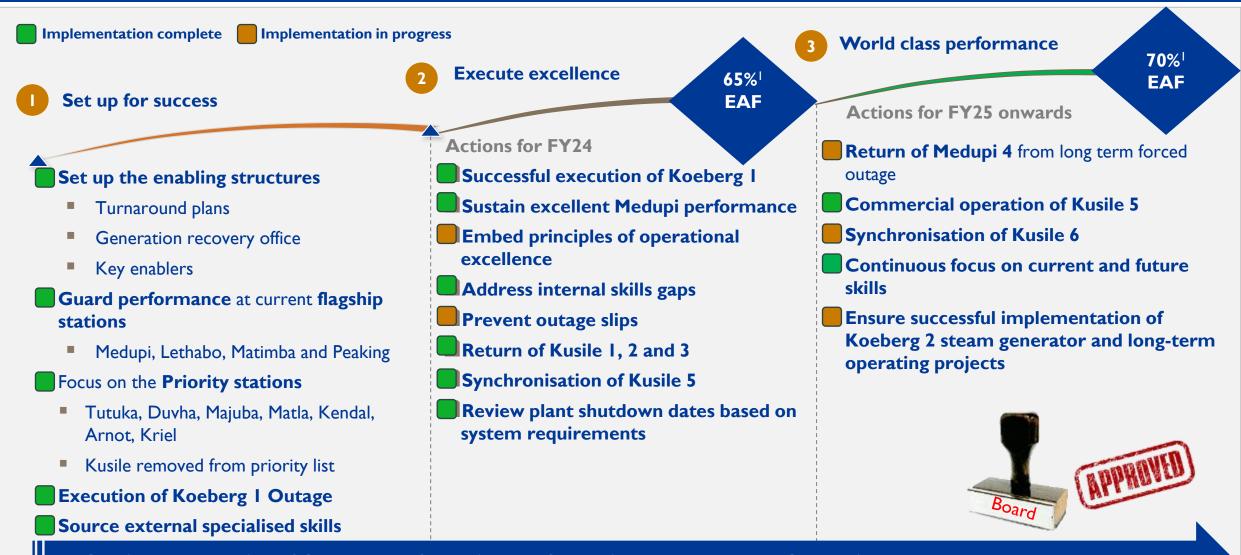
Dan MarokaneGroup Chief Executive

Bheki NxumaloGroup Executive - Gx

Dan MarokaneGroup Chief Executive

The focus on the Recovery Plan will ensure sufficient Generation capacity is recovered sustainably

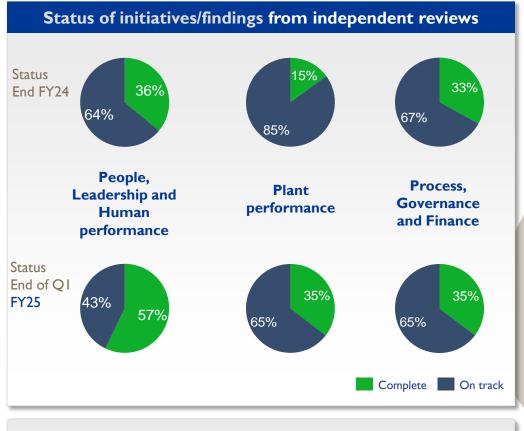




Continuous execution of Culture transformation and Strategic Levers as per the Generation Recovery Plan

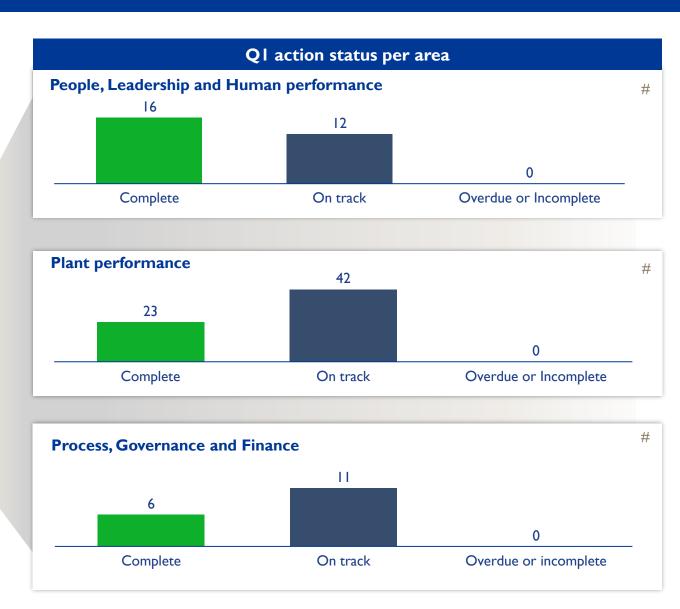
Significant progress has been made to drive the implementation and close out of actions from various independent reports







- © Progress on all 3 dimensions in completing actions completed actions almost doubled from April to end Q I
- © Biggest progress made in people and plant performance areas which is evident in the OE survey results and the improved recent plant performance (EAF)



There has been a steady increase in plant availability and decrease in spend on expensive OCGT generation



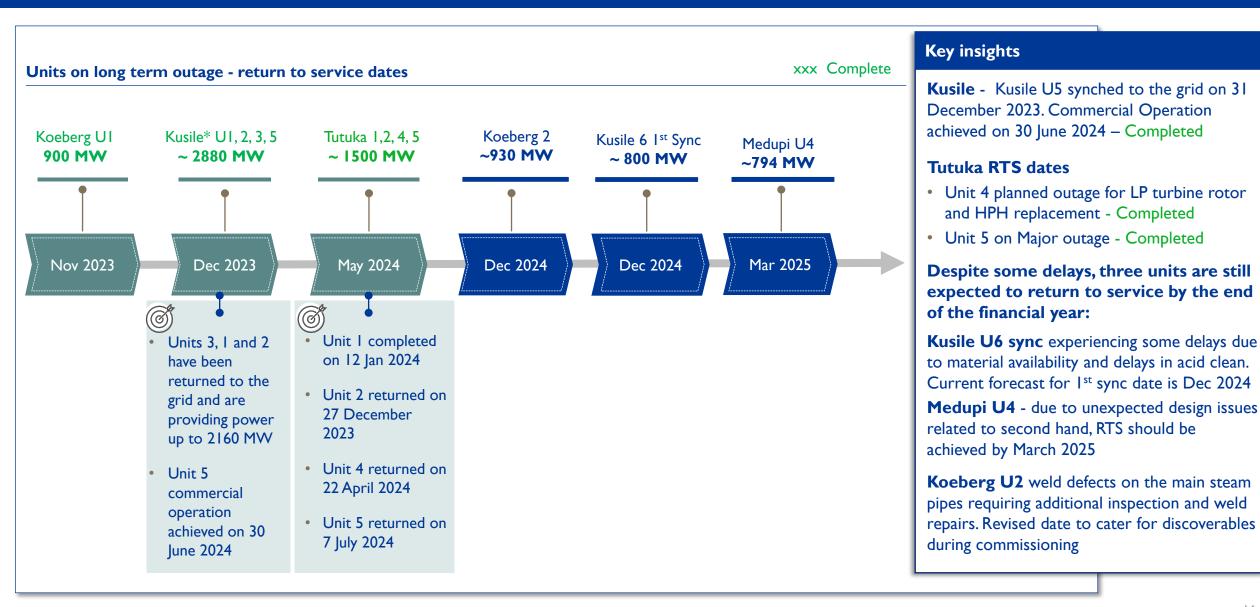




- Eskom Generation's plant availability has been trending upwards, since the beginning of FY25, supported by decreasing unplanned losses
- The increased availability has resulted in **decreasing spend** on **expensive OCGT generation** OCGT's are part of the energy mix utilised for meeting peak demand as required by the System Operator
- Generation has been able to maintain the unplanned losses below ~14 000MW throughout the winter period (to date) while leveraging the improved performance to conduct additional short-term PCLF
- Two (Kendal & Kriel) out of three stations (incl. Tutuka) that have performed well in the last 6 months are led by women
- The fleet is in a more stable setting going into the summer period of 2024, compared to the summer of 2023

The additional ~2500 MW capacity expected by the end of the financial year will contribute to security of supply





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The Generation fleet performance improvement allows us to focus on our long-term strategy to deliver a competitive, sustainable and future-proof Eskom





Pursue financial and operational sustainability (Fix the current business)

Recover EAF to 70% by March 2025

Reduce municipal arrear debt; rebase costs

Improve controls to address fraud, corruption and criminality

Leadership stability, skills development & entrench an ethical high-performance culture



Facilitate a competitive future energy industry (Prepare for competition)

Obtain unbundled tariffs approval (Decision taken by NERSA)

NTCSA trading by 2024, **Operationalisation of Dx** by April 2026; Gx by FY2026 Q4

Accelerate clean energy project development

Fine-tune Gx and Dx business models



Modernise our power system (Leverage technology)

Accelerate TDP execution incl. alternative funding models

Distribution network development incl. smart meters and microgrids

Use data analytics to create value and enhance decision making

> Increase flexibility of power system infrastructure



Strive for net zero emissions by 2050 (Transition responsibly)

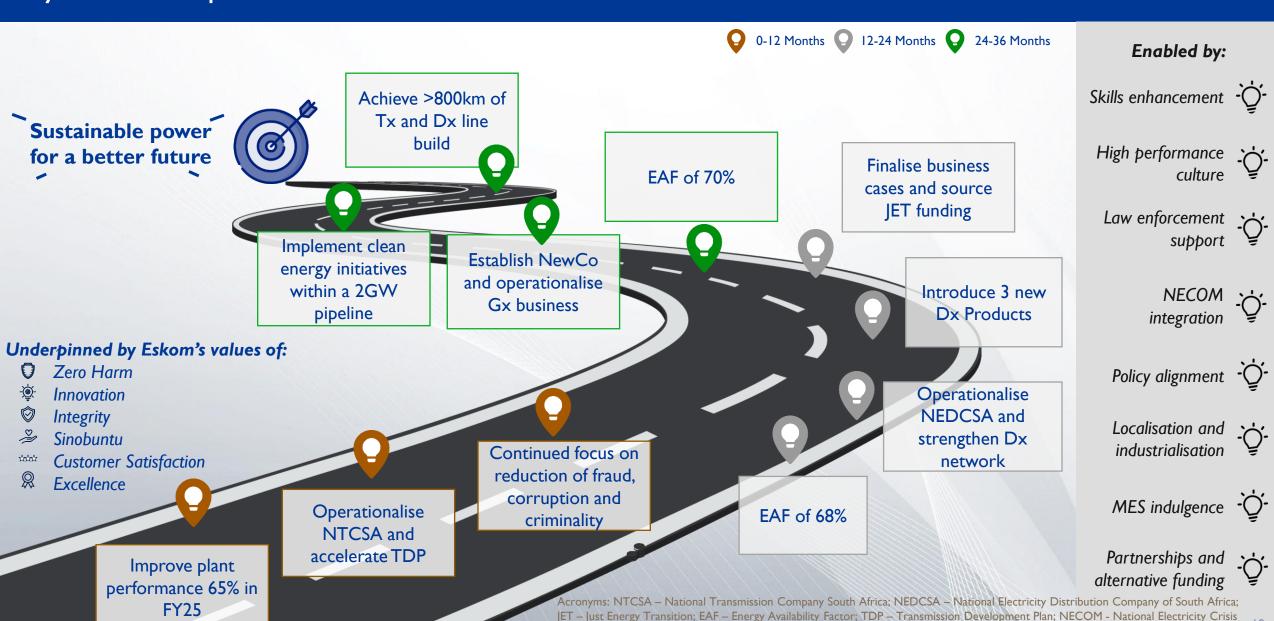
Accelerate Komati, Grootvlei, Hendrina, Camden, Arnot, Kriel repowering & repurposing initiatives

Collaborate with government on optimised **MES** compliance

Participate in **DERs and** drive eMobility (EV, EV charging infrastructure)

Key milestones over the next 36 months will be achieved through the systematic implementation of critical initiatives





Committee; MES – Minimum Emissions Standard; Tx – Transmission; Dx – Distribution; Gx - Generation

In Conclusion



- We have seen a positive trend in the reduction of unplanned load losses, leading to 150+ consecutive days of no loadshedding
- The Summer 2024/25 outlook has been revised (1500MW improvement), indicating no loadshedding to be expected if unplanned losses remain below 13GW.
- Through disciplined execution, dedication of our people and support from various stakeholders, our Generation Recovery Plan continues to deliver good results
- This performance has laid a good foundation to implement our strategy towards a competitive, sustainable Eskom
- Over the coming months, we will be providing updates against the **implementation of our strategic initiatives**
- We would like to thank all stakeholders, especially the <u>Eskom Guardians</u> for their hard work and dedication in moving Eskom towards success

